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The Gift of
Prof. Joseph Winlock,
of Cambridge,
22 Nov., 1864.

J. M. C. Coffin

CATALOGUE

OF THE

LIBRARY

OF THE

U. S. NAVAL ACADEMY,

ANNAPOLIS, MARYLAND,

JUNE 30, 1860.

ANNAPOLIS:
ROBERT F. BONSALL, PRINTER.
.....
1860.

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1864. Nov. 22

Gift of

Prof. Joseph Trimble

Cambridge.

PREFACE.

Soon after the removal of the Naval School from Philadelphia to Annapolis, in 1845, it was deemed expedient to lay the foundation of a library which should, at some future time, be capable of supplying the literary and professional wants of the institution. With this view, Mr. Bancroft, then Secretary of the Navy, transferred to it a few hundred volumes of miscellaneous works, which had belonged to the libraries of our ships-of-war and navy-yards. Small additions were made to this collection between 1845 and 1851, when Congress voted a sum of $2000 for the increase and support of the Library, and this liberal grant has been made, yearly, down to the present time.

During this period, the Library has been undergoing a gradual process of formation, and it is now a valuable auxiliary to the system of education pursued at the Academy. In the selection of books, while care is taken to strengthen the several departments, it is designed to make the nautical collection so complete that the naval officer may be able to consult the best works on all subjects connected with his profession. The annual increase averages 750 volumes, and the Library now contains 8548 printed volumes and pamphlets, 25 manuscript volumes, 200 sheets of loose maps and charts, 12 photographs of light-houses, and 8 sheets of loose engravings.

The books are arranged in separate cases according to subjects, and their use is limited to persons attached to the Academy. Hitherto, an imperfect manuscript catalogue has been the sole index to the contents of the Library; but it has gradually attained such proportions that a printed catalogue became indispensable. At the request of the Superintendent, Captain G. S. Blake, the work of preparing it was undertaken by Mr. Thomas G. Forde, the Assistant Librarian. He has devoted to it, in addition to his ordinary duties, many hours which he could fairly claim as his own, and its satisfactory completion is due to the intelligent care which he has bestowed upon it.

The Appendix to the Alphabetical Catalogue includes the recent purchases of books to June 1st, 1860. The Analytical Catalogue exhibits the character of the collection.

The Academy is greatly indebted to Prof. Chauvenet for his judicious selections, and his care of the Library for many years, and to Prof. Tafel, Dr. Zumbrock, and Mr. Forde, for their intelligent and efficient aid, as Assistant Librarians at successive periods.

J. H. C. COFFIN,
Prof. of Astronomy, &c.,
Librarian.

NAVAL ACADEMY,
June 30th, 1860.

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Commentarii. 1726–46. 14 vols. 4to. Petropoli, 1728–51.
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AIKIN'S BRITISH POETS. *See* British Poets.

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——— Mathematical Tracts on the Lunar and Planetary Theories, the Figure of the Earth, Precession and Nutation, the Calculus of Variations, and the Undulatory Theory of Optics.
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AKADEMIE DER WISSENSCHAFTEN ZU WIEN. Sitzungsberichte der mathematisch—naturwissenschaftlichen Classe. 12th vol.
1 vol. 8vo. Wien, 1854.

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Old Series. Vol. 1st.—published in 1785.
— — — 4th.— — – 1818.
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49 vols. 8vo. & Index. New York, 1819–45.

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27 vols. 8vo. New Haven, 1846–59.

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1st series:—vols. 1–6. 1789–1804. (vol. 6th imperfect.) 6 vols.
2nd series:—vols. 1–10. 1818–1853. 10 "
16 vols. 4to. Philadelphia, 1789–1853.

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ANCHOR WATCH: the Art of Tending Ships in a Tideway, with remarks on Mooring, Dredging, Backing and Filling, and Collisions at Sea. By a Master Mariner. 2nd edition.
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ANDREWS (E. A.). A Copious and Critical Latin-English Lexicon, founded on the larger Latin-German Lexicon of Dr. W. Freund.
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4 vols. 8vo. London, 1785–86.

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46 vols. 8vo. Paris, 1841–58.

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4me série. Vols. 19–20.
5 — — 1–11.
13 vols. 8vo. Paris, 1851–57.

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2 vols. 8vo. Paris, 1818.

ANNALES MARITIMES ET COLONIALES, ou Recueil de Lois et Ordonnances Royales, Réglemens et Décisions Ministerielles, Mémoires, Observations et Notices particulières et généralement de tout ce qui peut intéresser la Marine et les Colonies, sous les rapports militaires, administratifs, judiciaires, nautiques, consulaires et commerciaux, publié par M. Bajot, Sous-Commissaire de Marine. 1816–1847. { 103 vols.
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107 vols. 8vo. Paris, 1816–47.

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Vol. 1st. History and Description of the Astronomical Observatory of Harvard College. By W. C. Bond.
— 2nd. Part 1st. Observations on the Planet Saturn made at the Observatory of Harvard College, 1847–57.
2 vols. 4to. Cambridge, 1856–57.

ANNALS OF SCIENCE; being a Record of the inventions and improvements in Applied Science: including the Transactions of the American Association for the Advancement of Science. Conducted by H. L. Smith. Vol. 1st.
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3 vols. 12mo. Philadelphia, 1831.

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1 vol. 8vo. Paris, 1836.

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ANSON (G.). A Voyage round the World, in 1740–44. Compiled from his Papers by R. Walter, and Illustrated with forty-two Copper Plates. 1 vol. 4to. London, 1748.

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1 vol. 8vo. New York, 1850.

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1 vol. 8vo. Jena, 1852.

APPLETON'S LIBRARY MANUAL; containing a Catalogue Raisonné of upwards of twelve thousand of the most important works in every department of knowledge in all modern languages.
1 vol. 8vo. New York, 1847.

ARABIAN NIGHTS' ENTERTAINMENTS. The Thousand and One Nights. A new translation from the Arabic, with Notes, by E. W. Lane. 1 vol. 8vo. London, 1853.

ARAGO (Francois.) ŒUVRES COMPLÈTES DE; publiées d'après son ordre sous la direction de M. J. A. Barral.

Notices Biographiques. Vols. 1, 2 & 3. *Complet.*
Notices Scientifiques. Vols. 1, 4 & 5.
Instructions, Rapports et Notices sur les questions a résoudre pendant les Voyages Scientifiques. Vol. 1. *Complet.*
Mémoires Scientifiques. Vol. 1.
Astronomie Populaire. Vols. 1, 2 & 3.

11 vols., 8vo. Paris, 1854–58.

——— Historical Eulogium on James Watt; and an Essay on Machinery. Translated by H. Clarke.
1 vol. 12mo. London. —

——— Mémoire sur les affinités des corps pour la lumière, etc. *See* Biot et Arago.

——— Meteorological Essays, with an Introduction by Baron Alex. Von Humboldt. Translated under the superintendence of Col. Sabine, R. A. 1 vol., 8vo. London, 1855.

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1 vol. 12mo. London, 1850.

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MAPS, &c., U. S. Coast Survey,—*continued.*

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2–9. TRACK SURVEY of the Parana.

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" 6 Nov., 1843 — May, 1845.
" 8 – 18 Nov., 1847 — July, 1858.
" 19 Nos. 5 – 10 Mar., 1859 — July, 1859.
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PART II.

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4. England, Ireland, Scotland.

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Heber. From Calcutta to Bombay.
Hennepin. New Discov. of a Vast Country in America.
Hentzner. Travels in England. 1558-1603.
Herndon and Gibbon. Valley of the Amazon.
Huc. Chinese Empire.
—— Tartary, Thibet, and China.
Humboldt. Personal Narrative.
—— Island of Cuba.
—— Vues des Cordillères.
Hutchinson. Explorat. of the Niger, &c.
Ireland. Wall St. to Cashmere.
Irving. Voyages of Columbus.
—— Astoria.
Jackson. Empire of Morocco.
Japan in the 19th Century.
Japan Expedition. 1852-54. (Perry's.)
Jones' Excursions to Cairo, Jerusalem, &c.
Kane. Grinnell Expedition.
—— Arctic Explorations.
Kendall. Santa Fé Exped.
Keppel. Indian Archipelago.
—— From India to England.
Kerr's Collection of Voyages.
Keysler. Germany, Bohemia, &c.
Kidder. Travels in Brazil.
Kimball. Cuba and the Cubans.
King. Argentine Republic.
Kinglake. Eothen.
Kirkpatrick. Kingdom of Nepaul.
Kohl. Russia in 1842.
Krusenstein. Voyage round the World.
Laing. Voyage to Spitsbergen.
—— Tour in Sweden.
—— Residence in Norway. See App.
Lamartine. Holy Land.
Lander. Exped. au Niger.
Lane. Modern Egyptians.
Layard. Nineveh and Babylon.
—— Nineveh and its Remains.
Leslie and others. Polar Seas and Regions.
Lester and Foster. Voyages of Vespucius.
Le Vert. Souvenirs of Travel.
Lewis and Clark's Exped. to Sources of the Missouri.
Long's Exped. to the Rocky Mountains.
—— Exped. to St. Peter's River.
Lyall. Travels in Russia.
Lyell. First Visit to North America.
—— Second Visit to the United States.
Lynch. Exped. to the Jordon.
Macfarlane. Japan.
—— Turkey and its Destiny.
Mackenzie (A. S.). A Year in Spain.
—— Spain revisited.
Mackenzie (G. S.). Travels in Iceland.
Mackenzie (A.). Voyages to the Frozen and Pacific Oceans.
Mackinnon. Atlantic and Transat. Sketches.
Marryat. Diary in America. See App.
Maxwell. The Czar and his Court.
McCormick. Camp before Sebastopol. See App.
McDougall. Voyage of the "Resolute."
Mear's Voyages to N. W. Coast of America.

Medhurst. China.
Melville. Australia.
Miller. England and its People.
—— North of Scotland.
Minturn. New York to Delhi.
Muller. Voyages des Russes.
Niebuhr. Travels through Arabia.
Ogilby. America. See App.
Oliphant. Minnesota.
Osborn. Discov. of the N. W. Passage.
—— Cruise in Japanese Waters. See App.
Oscanyan. Sultan and his People.
Ossoli. At Home and Abroad.
Owen. Voyages to Africa.
Pacific R. Road Explor. See U. S. Doc's.
Page. La Plata.
Paget. Hungary and Transylvania.
Pardoe. City of the Magyar.
Park. Travels in Africa.
Parker. Tour beyond the Rocky Mountains.
Parrott. Journey to Mount Ararat.
Parry. Voyage for the Discov. of a N. W. Passage.
Perron. Ses Voyages.
Pfeiffer (Ida). Journey round the World.
—— Second Journey round the World.
—— Journey to Iceland.
Pigafetta. Voyage autour du monde.
Pike. Sources of the Mississippi.
Porter. (Capt.) Cruise in the "Essex."
——Letters from Constantinople.
Porter (J. L.). Five Years in Damascus.
Price. Brit. Embassy to Persia.
Prime. Egypt and Nubia.
—— The Holy Land.
Raumer. America and the Am. People.
Regnard. Voyages en Laponie, &c.
Reynolds. Pacific and Indian Oceans.
—— Voyage of the "Potomac."
Roberts. Embassy to Cochin China, &c.
Robinson (C.). Discov. in the West.
Robinson (E.). Palestine, &c.
Ross. Voyages in the Arctic Regions.
Ruschenberger. Voyage round the World.
—— Three Years in the Pacific.
Rush. Court of London.
Russell. Palestine.
Sanderson. American in Paris.
Sandwich. The Mediterranean.
Schoolcraft. Sources of the Mississippi.
Scoresby. Arctic Regions.
—— Whale Fishery.
Scott. Danes and Swedes.
Shaw. Barbary and the Levant.
Silliman (A. E.). American Scenery.
Silliman (B.). Visit to Europe in 1851.
—— From Hartford to Quebec.
Smith and Dwight. Armenia.
Smith (J.). Voyage of St. Paul.
Smith (G.). China.
Smith (W.). Collection de Voyages.
Smucker. Arctic Explorations.
Spalding Japan.
Spencer. European Turkey.
Squier. Nicaragua.
—— Central America.
Stansbury. Salt Lake of Utah.
Stephens. Central America.
—— Egypt, Arabia, &c.
Stephens. Greece, Turkey, &c.
—— Yucatan.
Stevenson. South America.
Stewart. South Seas in 1829-30.
St. John. Indian Archipelago.
Strickland. Canada West.
Symes. Embassy to Ava.
Taylor. Eldorado.
—— Central Africa.
—— Lands of the Saracen.
—— Views A-Foot.
Tschudi. Travels in Peru.
Tuckey. Explorat. of the Congo.
Turner. Court of the Teshoo Lama. See App.
Urquhart. Pillars of Hercules.
Vancouver. Voyage of Discovery.
Vincent. Com. and Nav. of the Ancients, &c.
Volney. Syria and Egypt in 1783-85.
Wallis. Glimpses of Spain.
—— Spain.
Walpole. Four Years in the Pacific.
Watson. Travels in Europe and Amer.
Weddell. South Pole.
Werne. Sources of the White Nile.
White. China Sea.
Wilkes. Western America.
Williams (E. A.). Cruise of the "Pearl." See App.
Williams (J. J.). Isthmus of Tehuantepec.
Williams (S. W.). Middle Kingdom.
Willis. Cruise in the Mediterranean
Wise. Los Gringos.
—— Scampavias.
Wittman. Turkey, Asia Minor, &c.
Wood. Fankwei.
—— South America.
Yosy. Switzerland.

4. Atlases, Maps, &c.

American Atlas. See Atlases.
Atlas Hydrographique.
Atlas of Australia.
Atlas of Phys. and Histor. Geog.
Berghaus. Phys. Atlas.
Allgemeine Weltkarte, &c.
Black's Atlas of the World.
Bradford's Atlas of the U. States.
Bruë. Atlas Universel.
Colton's Atlas of the World.
Findlay's Classical Atlas.
General Atlas.
Johnston's Physical Atlas.
Lavoisne's Atlas.
Map of Stansbury's Expedit.
Map of Railroads in the U. States.
Map of the Isthmus of Tehuantepec.
Map of Pike's Expedit.
Map of Long's Expedit.
Maps of Herndon and Gibbon's Explorat.
Maps of the Seat of War. (Crimean).
Maps of Fremont's Expedit's.
Mitchell's Ancient Atlas.
Mitchell's Universal Atlas.
Morse's Bible Atlas.

For Maps of Coasts, Rivers, Harbors, &c., see Naval Science, 2.

MATHEMATICAL SCIENCE AND ARTS.

1. Mathematics in General, including Collected Works, Histories, Dictionaries, Journals, &c.

Abel. Œuvres Complètes de.
Academy of Sciences of Berlin.
Mathematische Klasse.
Archimède: Œuvres de.
Bernouilli (Jacobus). Opera.
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Bezout. Cours de Mathématiques.
Bossut. Histoire des Mathématiques.
Cambridge and Dublin Mathem. Journal.
Crelle. Journal die Mathem.
Davies and Peck. Mathem. Dict.
Douliot. Cours de Construction.
Encyclop. of Pure Mathem.
Francœur. Cours. de Mathém.
Fuss. Correspondence Mathém.
Gerhardt. Entdeck. der höh'n Anal.
Hoffman. Mathem. Wörterbuch.
Hutton's Mathem. Dict.
Jacobi. Mathem. Werke.
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Leibnizen's Mathem. Schriften.
Libri. Hist. des Sciences Mathém.
Liouville. Journal de Mathém.
Mathématiques. See Encyclop. Méthod.
Memoirs of the Analytical Soc.
Montucla. Hist. des Mathématiques.
Newton. Opera.
Simpson. Works.
Young. Course of Mathem.

2. Arithmetic, and Algebra.

Bardel. Arithmétique.
Barlow. Theory of Numbers.
Berkhan. Die diophantische Gleich.
Bernouilli. Fractions décimales.
Bertrand. Partie élément. des Mathém.
Bessière. Arithmétique.
Bezout. Arithmétique.
Bourdon. Algèbre.
—— Algebra.
—— Arithmétique.
Bridge. Algebra.
Cauchy. Cours d'Analyse.
Chauvenet. Binom. Theorem.
Choquet et Mayer. Algèbre.
—— Complément d'Algèbre.
De Fourcy. Algèbre.
De Morgan. Arithmetic.
—— Algebra.
Duhamel. Cours d'Analyse.
Emerson. Algebra.
Euler. Algèbre.
Farrar. Algebra.
Faure. Quantités Imaginaires.
Fourier. Équations determinées.
—— Équations transcendantes.
Gauss. Algeb. Gleichungen.
—— De functionibus Algeb. 1799.
—— De functionibus Algeb. 1816.
Gauss. Disquisitiones Arithmeticæ.
Hirsch. Sammlung von Beispielen, &c.
Lacroix. Algèbre.
—— Complément d'Algèbre.
—— Arithmétique.
Lagrange. Équations Numériques.
Legendre. Recherches d'Analyse.
—— Théorie des Nombres.
Lübsen. Analysis.
Mayer. See Choquet.
Meunier-Joannet. Cours d'Analyse.
Moth. Algebra.
Newton. Universal Arithmetic.
Peacock. Algebra.
Peirce. Algebra.
Peters. Die symmet. Gleichungen, &c.
Poinsot. Théorie des Nombres.
Reynaud. Arithmétique.
Schlömilch. Algeb. Analysis.
Serret. Algèbre.
—— Arithmétique.
Stern. Theorie der Kettenbrüche.
Sturm. Cours d'Analyse.
Wallis. Algebra.
Waring. Meditationes Algebraicæ.
—— Meditationes Analyticæ.

3. Geometry, Trigonometry, Descriptive, and Analytical Geometry, Geometry of Curves, &c.

Adhémar. Géom. Descriptive.
Apollonii Pergæi Cornicorum, Libri, I-VII.
Bertrand. Partie élément. des Mathem.
Blumberger. Neueren Geom.
Borgnet. Geom. Analytique.
Boucharlat. Théorie des Courbes.
Bourdon. Applicat. de l'Algèb. á la Géom.
Cagnoli. Sezione Coniche.
—— Trigonométrie.
Carnot. Géom. de Position.
—— Geom. der Stellung, &c.
Chasles. Mém. sur les Surfaces, &c.
—— Géom Pure.
—— Géom. Supérieure.
Chauvenet. Trigonometry.
Church. Analytical Geom.
Clarke. Trigonométrie.
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Cotes. Harmonia Mensurarum.
Davis. Equations of Loci on a Sphere.
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De Morgan. Trigonometry.
Descartes. Geometria.
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Fort und Schlömilch. Analyt. Geom.
Gaskin. Trignom. Problems.
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—— Auflosung der Aufgabe.
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—— See Monge.
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—— Traité des Reciproques, &c.
Keith. Trigonometry.
Lacroix. Essais de Géom.
Lectures upon Trigon. and application of Alg. to Geom.
Legendre. Géométrie.
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Leroy. Géom. des trois dimensions.
Mack. Analytische Geom.
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—— Géom. Descriptive.
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Moth. Analytische Geom.
Newton. Quadrature of Curves, &c.
Nouvelle Théorie des Parrallèles.
Olivier. Cours de Géom. Des.
—— Mém. de Geom. Des.
Oriani. Trigonometria.
Peirce. On Curves, Functions, &c.
—— Trigonometry.
—— Geometry.
Playfair. Geom. and Trigonom.
Ritt. Géom. et Trigonométrie.
Robertson. Conic Sections.
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—— See Fort.
Schnuse. Theorie des Kreisfunktionen.
Sestini. Analytical Geometry.
Simpson. Trigonometry.
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Snowball. Trigonometry.
Steiner. Die geomet. Konstructionen.
—— Die geom. Gestalte.
Vallée. Géom. Descriptive.
Vincent. Géométrie.
Wilson. Trigonometry.
Witzschel. Neueren Geom.
Woolley. Descriptive Géom.

4. Calculus of Differential, Integral, and other Functions.

Arbogast. Calcul des dérivations.
Babbage. Examples. See Peacock.
Boucharlat. Calcul Diff. et Intég.
Cauchy. Exercises d'Analyse.
—— Exercises de Mathématiques.
—— Leçons sur le Calcul Diff.
—— Mémoires.
Church. Diff. and Integ. Calculus.
Cournot. Calcul Infinit.
Cox. Integral Calculus.
De Morgan. Calculus
Dienjer. Diff. – und Integralrechnung.
Euler. Calculus Diff.
—— Calculus Integ.
—— Introduction à l'Analyse Infinit.
Gauss. Integ. Valores.
Gregory's Examples.
Gudermann. Modular Functionen.
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Hann's Examples.
Herr. Höheren Mathem.
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Hind's Diff. Calculus.
Hirsch. Integraltafeln, &c.
Hoppe. Differentialquotienten, &c.
Jacobi. Function. Ellipt.
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Lagrange. Calcul des Fonctions.
—— Fonctions Analytiques.
Legendre. Intégrales définies.
—— Fonctions Elliptiques.
—— Transcendantes Elliptiques.
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Moigno. Calcul Diff. et Integ.
Monge. Fonctions arbit. See Mém. sur la Marine.
Newton. Fluxions, &c.
Peacock's Examples.
Peirce. On Curves, Functions, &c.
Petzval. Integration der Linearen, &c.
Price. Infinit. Calculus.
Robins. Fluxions. See his "Tracts."
Schlömilch. Theorie bestim. Integrale.
—— Höheren Analysis.
—— Diff. – und Integralrechnung.
—— Handbuch der Diff., &c.
—— Elliptischen Funktionen.
Sloman. Leibnitzens Anspruch, &c.
—— Versuch die Differenzialrechnung, &c.
Sohncke. Sammlung von Aufgaben, &c.
Stegmann. Lehrbuch der Variations – rechnung.
Stern. Euler'schen Integrale.
Strauch. Variations calcul.
Sturm. Cours d'Analyse.
Vallès. Science du Calcul.
Verhulst. Fonctions Elliptiques.
Woolhouse. Diff. Calculus.

5. Mathematical Tables and Instruments.

Babbage. Table of Log's.
Barlow. Tables of Squares, &c.
Borda. Tables trigonom.
Bremiker. Nova Tabula.
Berckhardt. Table des diviseurs, &c.
Caillet. Tables des Log's, &c.
Callet. Tables de Log's.
Chauvenet. Great Circle Protractor.
Crelle. Tafeln.
—— Rechentafeln.
Dodson. Anti – Log. Canon.
Domke. Tafeln.
Galbraith. Mathem. Tables.
Hassler. Log Tables
Lee's Tables and Formulæ.
Nystrom. Calcul. Machine.
Oyon. Tables de Multip.
Schaller. Primzalen – Tafel.
Shortrede. Log Tables.
—— Log Tables to 7 places, &c.
Simms. Mathem. Instruments.
Stanley. Log Tables.

Vega. Mathem. Tafeln.
—— Thesaurus Log.
—— Log.-Trig. Handbuch.
—— Log.-Trig. Tafeln.
Zeech. Tafeln der Add's. und Log.

6. Mensuration, Surveying, Engineering, Mechanical Drawing.

Ainslie. Land Surveying.
Arrowsmith. Geom. Construct. of Globes.
Baker. Land Surveying.
Beautemps-Beaupré. Naut. Surveying.
Borden. On Railroads.
Burr. Surveying, &c.
Corréard. Dessin Topographique.
Davies. Surveying.
Dix. Geographical Maps.
Enthoffer. Memorial über Ingenieur, &c.
Frome. Milit. Surveying.
Gillespie. Land Surveying.
Henry. Cartes Géographiques.
Jopling. Geometrical Perspective.
Lhuillier. Polygonométrie.
Mahan. Industrial Drawing.
Mascheroni. Géom. pour les arpenteurs.
Millington. Civil Engineering.
Minifie. Geomet. Drawing.
Nesbit. Land Surveying.
Puissant. Topographie.
—— Supplément.
Pyne. Perspective.
Siborn. Topograph. Surveying.
Taylor. Linear Perspective.

7. Miscellaneous Mathematical Works.

Airy's Methem. Tracts.
Baltzer. Determinanten.
Bessel. See Olbers.
Brioschi. Determinanten.
Brougham and Routh. Newton's Principia.
Carnot. Distance de cinq points.
Cauchy. Sur les Nombres.
Clemens. Kleinsten Quadrate.
Comte. Philosophy of Mathem.
Cournot. Corr. de l'Alg. et Géom.
—— Chances et Probabilités.
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—— Calculus of Inference.
Dienger. Kleinsten Quadrate.
Diverses Solutions: Mathem. Élément.
Dupin. Applications de Géom.
—— Développements de Géom.
Fournié. Programme des Mathém.
Gaultier de Tours. Le Cercle et la Sphère
Gauss. Des Moindres Carrés.
—— Summatio Serierum.
Gerling. Kleinsten Quadrate.
—— Pothen. Aufgabe.
Gregory. Mathem. for practical Men.
Hamilton. On Quaternions.
Hansen. Poten. de. $\sqrt{(r^2 + r'^2 \text{ \&c.})}$
Hutton's Recreations in Science.
—— Mathem. Tracts.
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Kummer. Idealen Primfaktoren.
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Rogner. Material. zum Gebrauche, &c.
Routh. See Brougham.
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Schlomilch. Analyt. Shidien.
—— Mathem. Abhand.
—— Miscellanea Mathem.
—— Differenzen und Summen.
Soldner. Nouvelle Fonction.

See Astronomy, Physical Science, and Naval Science.

ASTRONOMY AND GEODESY.

1. Histories and Journals of Astronomy.

Apelt. Die Reformat. der Sternkunde.
Astronomie, &c. 1845.
Astronom. Journal. (Gould's.)
Astronom. Nachrichten.
Delambre. Astronomie Ancienne.
—— Astron. du Moyen Age.
Grant. Hist. of Phys. Astron.
Lalande. Bibliog. Astron.
Laplace. Hist. de l'Astron.
Loomis. Progress of Astron.
Royal Astron. Society: Notices. See App.
—— Memoirs. See App.
Zach. Corresp. Astronomique.
—— Monatliche Corresp.

2. General, Physical and Practical Astronomy.

Airy. Gravitation.
—— Lectures on Astron.
Arago. Astron. Populaire.
Baily. On determining Longitude.
Bartlett. Spher. Astron.
Bessel. Astron. Untersuchungen.
Biot. Astron. Physique.
Bode. Kenntniss des gestirn. Himm.

Bohnenberger. Anleitung zur geog. ort-bestimm.
Bradford. Wonders of the Heavens.
Braungard. Physikal. Astron.
Breen. Astron. See Orr's Circle.
Brünnow. Sphärische Astron.
Delambre. Astron. théor. et prat.
Delaunay. Cours d'Astronomie.
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Euler. Theoria mot. planet.
Francœur. Uranographie.
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—— Theoria Motus.
—— Motion of the heavenly bodies, &c.
Gregory. Astronomy.
Gummere. Astronomy.
Hassler. System of the Universe.
Herschel. Astronomy.
—— Outlines of Astron.
Hind. London Astron.
—— Solar System.
Jahn. Practische Astron.
Laplace. Mécanique Céleste.
—— Œuvres de.
Lardner. Lectures.
Littrow (J. J.). Astronomie.
Littrow (K.). Vörlesungen.
—— Wunder des Himmels.
Longomontanus. Astron. Danica.
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Martin. Philosophia Britan.
Mason. Supplement to Olmsted's Astron.
Mitchell. Planet. and Stellar Worlds.
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Narrien. Pract. Astron.
Newton. Principia.
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Pearson. Pract. Astron.
Peirce. Trigonometry.
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Sawitch. Practische Astron.
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Schulze. Die Astronomie.
Somerville. Mechanism of the Heavens.
Vince. Astronomy.
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For Works on Naut. Astron., See Naval Science, 1.

3. Observations, Observatories, and Instruments.

Airy. Astron. Observ. Greenwich.
—— Longitude of Valentia.
Annals of Georgtown Observ.
Annals of Harvard Observ.
Astronom. Observ., by Gilliss.
—— Observ. Washington.
Baily. On the Pendulum.
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Encke. Ast. Beob. Berlin.
Gauss. Breitenunterschiedes Gött. und Altona.
Gilliss. Astronom. Observat.
—— Astronom. Expedition.
Graham. Lat. and Long. of Chicago.
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—— Theorie des Æquatoreals.
Herschel's Astron. Observ. at the Cape.
Lalande. Hist. Céleste Française.
Lamont. Sternwarte b. München.
Littrow. Uber lichte Eäden.
Mädler. Beobach. Dorpat.
Peters. Beob. des Polarsterns.
Struve. L'Observ. de Poulkova.
—— Expédit. Chronom.
—— Stellarum dup. mensuræ, &c.
—— sur l'instrument des passages, &c.

4. Ephemerides, Catalogues, Maps, and Tables.

Allé. Opposition der Calliope.
American Almanac.
Am. Ephemeris. See Naut. Alm.
Argelander. Atlas des Himmels.
—— DLX stellarum, &c.
Bagay. Tables Astron.
Baily's Catalogue of Stars.
Beer. Erläut. zur Mondkarte.
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Bessel. Fundamenta Astron.
—— Tabulæ Regiomontanœ.
Brünnow. Tables of Victoria. See App.
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Catalogue of Stars: Brit. Assoc.
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Chacornac. Atlas Écliptique.
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Delambre et Burg. Tables Astron.
De Morgan. Book of Almanacs.
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Groombridge Catalogue.
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Muller. Die Equatorialzone.
Nautical Almanac: British.
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Oeltzen. Vergleich. des Sternkatalogs.
—— Sternörter Zwischen 45° & 80° N.
Richard. Sur les instruments, &c.
Rümker. Mitt. Oerter, &c.
—— Neue Folge der Mitt., &c.
Shadwell. Tables for Occultations.
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Struve. Catalogue de 514 étoiles.
—— Stellarum fix. positiones med.
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Wolfers. Tabulæ reductionum.
Zech. Tab. Reg. cont'd. See Wolfers.

5. Cometography.

Arago. The Comet. See App.
Argelander. Cometen von Jahre 1811.
Bessel. Kometentheorie. See Astron. Abhand.
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Encke. Cometen von Pons.
—— Erschein. der Kometen. See App.
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Hind. The Comets.
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Littrow. Kometen von 1556.
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—— Verzeichniss. See Astron. Abhand.
Pingré. Cométographie.
Tycho Brahe. Cometa 1585.
Weyer. Cometenbahnen.

6. Miscellaneous Astronomical Works.

Babinet. Sciences d'Observation.
—— et Housel. Calculs des Sciences d'Observ.
Beer und Mädler. Der Mond.
Bernouilli. Éclipses. See Mém. Mathem.
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—— Versuche über die Kraft.
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—— Theor. resid. biquad.
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